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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/519,165	03/06/2000	David W. Sherrer	ACT-111	8879	
26086	7590 09/25/2002				
HALEOS, INC.			EXAMINER		
3150 STATE : BLACKSBUR	STREET RG, VA 24060		WATKINS III,	WATKINS III, WILLIAM P	
			ART UNIT	PAPER NUMBER	
			1772	15	
	•		DATE MAILED: 09/25/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Applicati n No.	Applicant(s)	
	09/519,165	SHERRER ET AL.	
Office Action Summary	Examiner	Art Unit	
	William P. Watkins III	1772	
Th MAILING DATE of this communication ap Period for Reply	opears n the cover shee	t with the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu - Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, mappy within the statutory minimum of will apply and will expire SIX (6) te, cause the application to become	y a reply be timely filed f thirty (30) days will be considered timely. MONTHS from the mailing date of this communicatie e ABANDONED (35 U.S.C. § 133).	on.
1) Responsive to communication(s) filed on 04	January 2002 and 10 J	<u>uly 2002</u> .	
2a)⊠ This action is FINAL . 2b)□ T	his action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice unde			is
Disposition of Claims	.		
 4) Claim(s) 1-29 is/are pending in the application 4a) Of the above claim(s) 1-12 is/are withdraw 			
5) Claim(s) is/are allowed.	vii iroiti corisideradori.		
6)⊠ Claim(s) <u>13-29</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/	or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examin	er.		
10)☐ The drawing(s) filed on is/are: a)☐ acc	epted or b) objected to	by the Examiner.	
Applicant may not request that any objection to t			
11)☐ The proposed drawing correction filed on	is: a)∏ approved b)[disapproved by the Examiner.	
If approved, corrected drawings are required in r	, ,		
12) The oath or declaration is objected to by the E	xaminer.		
Pri rity under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreign	gn priority under 35 U.S	C. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority documer	nts have been received.		
Certified copies of the priority documer	nts have been received	n Application No	
 3. Copies of the certified copies of the pri application from the International B * See the attached detailed Office action for a list 	Bureau (PCT Rule 17.2(a	1)).	
14) Acknowledgment is made of a claim for domes	stic priority under 35 U.S	.C. § 119(e) (to a provisional applica	ition).
 a) The translation of the foreign language p 15) Acknowledgment is made of a claim for domes 			
Attachment(s)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) 🔲 Notic	iew Summary (PTO-413) Paper No(s) e of Informal Patent Application (PTO-152)	.•

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DETAILED ACTION

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 13-29 are rejected under 35 U.S.C. 102(b) as being anticipated by Ayliffe et al. (U.S. 5,522,000).

See the Figure. Element 16a is a pad, which takes solder in a bumping process to secure an electrical component. Element 10 is a silicon layer, with a dielectric layer (element 14), which may be silica, on top of the silicon substrate, with pads 16b on top of the dielectric layer. The space between pads 16b and 16a forms a "U" shape. A groove is etched between pads 16b to hold an optical element. The edges of pads 16b, the dielectric layer, and the silicon substrate layer are aligned and form the sidewalls of the groove.

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3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 13-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ayliffe et al. (U.S. 5,522,000).

In the event that the disclosure mentioned in the above rejection is not deemed an anticipation, it is the position of the examiner that the instant invention would have been obvious to one of ordinary skill in the art in view of the above mentioned disclosure. Variation in the exact shapes of the pads and etched grooves is taken to have been within the ordinary skill of the art depending on the shape of the optical and electrical elements to be secured to the substrate.

5. Applicant's arguments with respect to claims 13-29 have been considered but are moot in view of the new ground(s) of rejection.

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. This application contains claims 1-12 drawn to an invention nonelected with traverse in Paper No. 6, filed 20 April 2001. A complete reply to the final rejection must include cancelation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to William P. Watkins III whose telephone number is 703-308-2420. The examiner works an increased flex time schedule, but can normally be reached Monday through Friday, 11:30 A.M. through 8:00 P.M. Eastern Time. The examiner returns all calls within one business day unless an extended absence is noted on his voice mail greeting.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon can be reached on 703-308-4251. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

William D. Whettown

WW/ww September 24, 2002

WILLIAM P. WATKINS III
PRIMARY EXAMINER